

APR 16 2003

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Attorney Docket No. SABI-018/01US (S25-US1)

PATENT

4-22-03

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231 on 4/11/03.

By: Yang Tang

Yang Tang

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of REBAR et al.

Serial No.: 10/055,711

Examiner: Unassigned

Confirmation No.: 6236

Art Unit: 1645

Filed: January 22, 2002

For: MODIFIED ZINC FINGER BINDING PROTEINS

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Enclosed is an Information Disclosure Statement and accompanying Form PTO-1449 for the above-identified patent application.

- ☒ In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- ☐ In accordance with 37 C.F.R. §1.97(c), also enclosed is:
- ☐ the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
- ☐ a statement as specified in 37 C.F.R. §1.97(e).
- ☐ In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. §1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- ☐ Check No. ___ in the amount of \$___ for the total fee is attached.
- ☒ A return receipt postcard is also enclosed.
- ☐ Please charge \$___ to Deposit Account No. 03-3117 for the total fee. This paper is being submitted in duplicate.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 03-3117.

Dated: April 11, 2003

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Respectfully submitted,
COOLEY GODWARD LLP

By:

Dahna S. Pasternak
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97(b)

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56,
Applicant(s) hereby submits the following information in conformance with 37 C.F.R.
§§1.97 and 1.98.

- ☒ Pursuant to 37 C.F.R. §1.98, a copy of each document cited in the attached Form PTO-1449 is enclosed.
- ☐ No copies of the publications listed on the attached Form PTO-1449 are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. ___ to which the above-identified application claims priority under 35 U.S.C. §120.
- ☒ Publication(s) A1, A2, B2, C3, C12 listed on the attached Form PTO-1449 were cited in a foreign search or examination report corresponding to application serial no. PCT/US02/01893 and mailed on September 12, 2002.



- ☐ Enclosed is a copy of a non-English publication(s) _____. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- ☐ Enclosed is a copy of a non-English publication(s) _____. English language publication ____ (copy enclosed) claims priority from this non-English publication.
- ☐ Enclosed is an explanation of non-English publication(s) ____ for which an English translation is not available.
- ☐ Enclosed is an English translation of non-English publication(s) ____ cited in the attached Form PTO-1449.
- ☐ Enclosed is a copy of pending patent Application Serial No. _____.

This Information Disclosure Statement is filed within any one of the following time periods:

- ☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- ☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in this international application;
- ☒ before the mailing date of a first office action on the merits; or
- ☐ before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO-1449 to the undersigned.

Dated: April 11, 2003

Respectfully submitted,
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Washington, DC 20231



FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)
Sheet 1 of 3

In the Application of REBAR et al.

Confirmation No. 6236

Serial No.: 10/055,711

Art Unit: 1645

Filed: January 22, 2002

Examiner: unassigned

Title: MODIFIED ZINC FINGER BINDING PROTEINS

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
	A-1	5,916,794	June 29, 1999	Chandrasegaran			
	A-2	6,007,988	December 28, 1999	Choo et al.			
	A-3	6,013,453	January 11, 2000	Choo et al.			
	A-4	6,140,081	October 31, 2000	Barbas			

FOREIGN PATENT DOCUMENTS

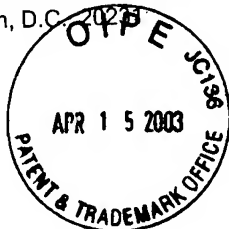
Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES NO	
	B-1 ✓	WO 98/53057	November 26, 1998	PCT				
	B-2 ✓	WO 98/53058	November 26, 1998	PCT				
	B-3 ✓	WO 98/53059	November 26, 1998	PCT				
	B-4 ✓	WO 98/53060	November 26, 1998	PCT				
	B-5 ✓	WO 00/23464	April 27, 2000	PCT				
	B-6 ✓	WO 00/42219	July 20, 2000	PCT				

Examiner:

Date Considered:

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Washington, D.C. 20230



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Title: MODIFIED ZINC FINGER BINDING PROTEINS

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
	C-1 ✓	Blackburn, "Engineering and design: rational versus combinatorial approaches," <i>Curr. Opin. Struct. Biol.</i> <u>10</u> :399-400 (2000)
	C-2 ✓	Choo et al., "Advances in Zinc Finger Engineering," <i>Curr. Opin. Struct. Biol.</i> <u>10</u> (4):411-416 (2000)
	C-3 ✓	Fox et al., "Transcriptional Cofactors of the FOG Family Interact with GATA Proteins by Means of Multiple Zinc Fingers," <i>EMBO J.</i> <u>18</u> (10):2812-2822 (1999)
	C-4 ✓	Jiang et al., "A Novel Family of Cys-Cys, His-Cys Zinc Finger Transcription Factors Expressed in Developing Nervous System and Pituitary Gland," <i>J. Biol. Chem.</i> <u>271</u> :10723-10730 (1996)
	C-5 ✓	Kochoyan et al., "Alternating zinc fingers in the human male associated protein ZFY: 2D NMR structure of an even finger and implications for "jumping-linker" DNA recognition," <i>Biochemistry</i> <u>30</u> :3371-3386 (1991)
	C-6 ✓	Krizek et al., "Ligand Variation and Metal Ion Binding Specificity in Zinc Finger Peptides," <i>Inorg. Chem.</i> <u>32</u> :937-940 (1993)
	C7 ✓	Lee et al., "Three-dimensional solution structure of a single zinc finger DNA-binding domain," <i>Science</i> <u>245</u> :635-637 (1989)
	C-8 ✓	Merkle et al., "Design and characterization of a ligand-binding metalloprotein," <i>J. Am. Chem. Soc.</i> <u>113</u> :5450-5451 (1991)
	C-9 ✓	Miura et al., "Role of Metal-Ligand Coordination in the Folding Pathway of Zinc Finger Peptides," <i>Biochim. Biophys. Acta</i> <u>1384</u> :171-179 (1998)
	C-10 ✓	Omichinski et al., "High-resolution three-dimensional structure of a single zinc finger from a human enhancer binding protein in solution," <i>Biochemistry</i> <u>29</u> :9324-9334 (1990)

Examiner:

Date Considered:

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Exam. Init.	Ref. Desig.	Description
	C-11 ✓	Pavletich and Pabo, "Zinc Finger-DNA Recognition: Crystal Structure of a Zif268-DNA Complex at 2.1 Å," <i>Science</i> <u>252</u> :809-817 (1991)
	C-12 ✓	Qian et al., "Two-Dimensional NMR Studies of the Zinc Finger Motif: Solution Structures and Dynamics of Mutant ZFY Domains Containing Aromatic Substitutions in the Hydrophobic Core," <i>Biochemistry</i> <u>31</u> :7463-7476 (1992)
	C-13 ✓	Segal et al., "Design of Novel Sequences-Specific DNA-Binding Proteins," <i>Curr. Opin. Chem. Biol.</i> <u>4</u> :34-39 (2000)

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